

Claims

[c1] What is claimed is:

1. A verification system for verifying the assembly of a first device, the verification system comprising:
 - a first accelerometer disposed on a first flat; the first accelerometer having a first detecting axis and being capable of measuring a component of a force of gravity on the first accelerometer in the direction of the first detecting axis;
 - a second accelerometer disposed on a verification point of the first device; the second accelerometer having a second detecting axis and being capable of measuring a component of a force of gravity on the second accelerometer in the direction of the second detecting axis;
 - and
 - a remote system capable of comparing outputs of the two accelerometers to determine whether the assembly of the first device is successful.

[c2] 2. The verification system of claim 1 wherein the remote system is wire-connected to the two accelerometers and receives the outputs of the two accelerometers.

[c3] 3. The verification system of claim 1 wherein the remote

system is wirelessly connected to the two accelerometers and receives the outputs of the two accelerometers.

- [c4] 4. The verification system of claim 1 wherein the first flat is an upper surface of a main board.
- [c5] 5. The verification system of claim 1 wherein the first flat is an upper surface of a chip.
- [c6] 6. The verification system of claim 1 wherein the first device is assembled on a second device, and the second device is assembled on the first flat.
- [c7] 7. The verification system of claim 6 wherein the first device is a heat sink.
- [c8] 8. The verification system of claim 6 wherein the second device is a processor.
- [c9] 9. The verification system of claim 6 wherein the second device is a chip.
- [c10] 10. A method for verifying whether the assembly of a first device is successful, the method comprising:
 - (a) disposing a first accelerometer on a verification point of the first device;
 - (b) disposing a second accelerometer on a first flat;
 - (c) measuring a component of a force of gravity on the first accelerometer in the direction of a detecting axis of

the first accelerometer;

(d) measuring a component of a force of gravity on the second accelerometer in the direction of a detecting axis of the second accelerometer; and

(e) determining whether the assembly of the first device is successful according to the measurements of the two accelerometers.

- [c11] 11. The method of claim 10 further comprising if in step (e) the assembly of the first device is determined unsuccessful, adjusting the position of the first device according to the measurements of the two accelerometers and executing step (c), (d), and (e) again.
- [c12] 12. The method of claim 10 wherein step (e) further comprises determining an included angle between the first device and the first flat according to the measurements of the two accelerometers, and determining the assembly of the first device is successful if the included angle between the first device and the first flat is within a predetermined range.
- [c13] 13. The method of claim 10 further comprising assembling the first device on the first flat.
- [c14] 14. The method of claim 10 further comprising assembling a second device on the first flat, and assembling

the first device on the second device.